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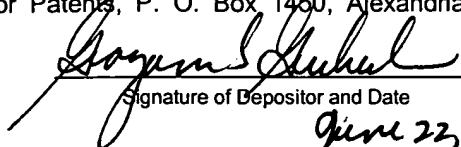
June 22, 2004

Date of Deposit

I hereby certify that this correspondence is being deposited with the United States postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the dated indicated above and is addressed to: Mail Stop Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Georgann S. Grunebach, Reg. No. 33,179

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In Re Application of:

JUN 29 2004

Ying J. Feria, et al

Technology Center 2600

Serial No.: 09/735,861

Art Group No.: 2664

Filed: December 12, 2000

Examiner: Chin, Wellington

For: DYNAMIC CELL CDMA CODE ASSIGNMENT
SYSTEM AND METHOD

Attorney Docket No.: PD-200050

SUPPLEMENTAL DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(c)
WITH PAYMENT OF FEE UNDER 37 C.F.R. § 1.17(P)

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 C.F.R. § 1.97(c), the art listed and identified on the attached PTO form (copies of references enclosed) is being submitted herewith for consideration by the

Examiner.

06/28/2004 AWONDAF1 00000037 500383 09735861

01 FC:1806

180.00 DA

This information disclosure statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

PAYEMNT OF FEE SET FORTH IN § 1.17(P)

Please charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California, in the amount of \$180.00. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to that account. **This form is being submitted in duplicate.**

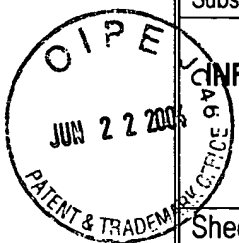
Respectfully submitted,



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Date: June 22, 2004

The DIRECTV Group, Inc.
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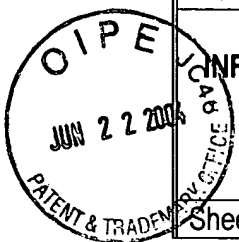


Substitute for Form 1449/PTO		APPLICANT INFORMATION	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/735,861
		Filing Date	Dec 12 2000
		First Named Inventor	Feria, Ying J., et al.
		Art Unit	2664
		Examiner Name	Chin, Wellington
Sheet: 1 of 7		Attorney Docket Number	PD-200050

U.S PATENT DOCUMENTS

Examiner Reviewed	Country	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Sub Class
	US	2,470,787	5-24-1949	Nosker		
	US	3,541,553	11-17-1970	Gubin, S.		
	US	3,720,953	3/13/1973	Ajioka		
	US	4,161,730	7/17/1979	Anderson		
	US	4,161,734	7/17/1979	Anderson		
	US	4,236,161	11-25-1980	Ohm		
	US	4,359,733	11-16-1982	O'Neill		
	US	4,635,063	1-6-1987	Chang, et al.		
	US	4,689,625	8-25-1987	Barmat		
	US	4,799,065	1-17-1989	Thompson		
	US	4,823,341	4-18-1989	Rosen		
	US	4,901,307	2-13-1990	Gilhousen, et al.		
	US	4,994,809	2-19-1991	Yung, et al.		
	US	5,017,927	5-21-1991	Agrawal, et al.		
	US	5,081,464	1-14-1992	Renshaw		
	US	5,099,245	3-24-1992	Sagey		
	US	5,109,390	4-28-1992	Gilhousen, et al.		
	US	5,111,209	5-5-1992	Toriyama		
	US	5,126,748	6-30-1992	Ames, et al.		
	US	5,151,706	9-29-1992	Roederer, et al.		
	US	5,379,320	1-3-1995	Fermendes, et al.		
	US	5,387,916	2-7-1995	Cohn		
	US	5,408,237	4-18-1995	Patterson, et al.		
	US	5,410,314	4-25-1995	Frush, et al.		
	US	5,423,059	6-6-1995	LoGalbo, et al.		
	US	5,444,450	8-22-1995	Olds, et al.		
	US	5,475,520	12-12-1995	Wissinger		
	US	5,525,995	6-11-1996	Benner		
	US	5,555,444	9-10-1996	Diekelman, et al.		
	US	5,696,766	12-9-1997	Yeung, et al.		
	US	5,732,351	3-24-1998	Olds, et al.		
	US	5,739,785	3-14-1998	Allison, et al.		
	US	5,754,139	5-19-1998	Turcotte, et al.		
	US	5,810,284	9-22-1998	Hibbs, et al.		
	US	5,839,053	11-17-1998	Bosch, et al.		
	US	5,862,480	1-19-1999	Wild, et al.		

Examiner	Date Considered
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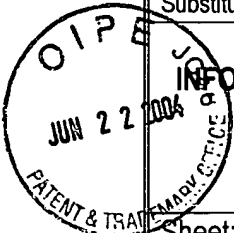


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U.S PATENT DOCUMENTS

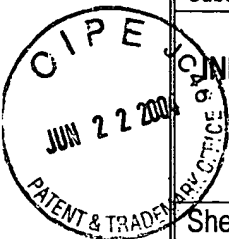
Examiner Reviewed	Country	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Sub Class
	US	5,867,109	2-2-1999	Wiedeman		
	US	5,878,034	3-2-1999	Hershey, et al.		
	US	5,890,067	3-30-1999	Chang, et al.		
	US	5,907,813	5-25-1999	Johnson, Jr., et al.		
	US	5,907,816	5-25-1999	Newman, et al.		
	US	5,917,447	6-29-1999	Wang, et al.		
	US	5,918,157	6-29-1999	Wiedeman, et al.		
	US	5,937,332	8-10-1999	Karabinis		
	US	5,946,625	8-31-1999	Hassan, et al.		
	US	5,949,766	9-7-1999	Ibanez-Meier, et al.		
	US	5,956,619	9-21-1999	Gallagher, et al.		
	US	5,966,371	10-12-1999	Sherman		
	US	5,973,647	10-26-1999	Buford, et al.		
	US	5,974,317	10-26-1999	Djuknic, et al.		
	US	5,974,324	10-26-1999	Henson		
	US	5,982,337	11-9-1999	Newman, et al.		
	US	5,983,113	11-9-1999	Asanuma		
	US	5,990,928	11-23-1999	Sklar, et al.		
	US	6,002,935	12-14-1999	Wang		
	US	6,014,372	1-11-2000	Kent, et al.		
	US	6,016,124	1-18-2000	Lo, et al.		
	US	6,018,316	1-25-2000	Rudish, et al.		
	US	6,023,463	2-8-2000	Wiedeman, et al.		
	US	6,028,884	2-22-2000	Silberger, et al.		
	US	6,032,041	2-29-2000	Wainfan, et al.		
	US	6,047,186	4-4-2000	Yu, et al.		
	US	6,061,562	5-9-2000	Martin, et al.		
	US	6,072,986	6-6-2000	Blanchard, et al.		
	US	6,088,341	7-11-2000	Hinedi, et al.		
	US	6,104,911	8-15-2000	Diekelman		
	US	6,125,261	9-26-2000	Anselmo, et al.		
	US	6,147,658	11-14-2000	Higashi, et al.		
	US	6,150,977	11-21-2000	Wilcoxson, et al.		
	US	6,157,621	12-5-2000	Brown, et al.		
	US	6,167,263	12-6-2000	Campbell, J. Scott		
	US	6,169,910	1-2-2001	Tamil, et al.		

Examiner	Date Considered
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U.S PATENT DOCUMENTS

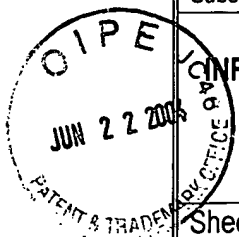
Examiner Reviewed	Country	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Sub Class
	US	6,173,178	1-9-2001	Hammill, et al.		
	US	6,176,451	1-23-2001	Drymon		
	US	6,178,328	1-23-2001	Tang, et al.		
	US	6,188,896	12-13-2001	Perahia, et al.		
	US	6,195,037	2-27-2001	Gross, et al.		
	US	6,195,555	2-27-2001	Dent		
	US	6,198,920	3-6-2001	Doviak, et al.		
	US	6,201,797	3-13-2001	Leuca, et al.		
	US	6,205,320	3-20-2001	Coleman		
	US	6,208,858	3-27-2001	Antonio, et al.		
	US	6,236,834	5-22-2001	Poskett, et al.		
	US	6,240,072	5-29-2001	Lo, et al.		
	US	6,272,317	8-7-2001	Houston, et al.		
	US	6,308,045	10-23-2001	Wright, et al.		
	US	6,311,068	10-30-2001	Leung, et al.		
	US	6,311,611	1-15-2002	Antonio, et al.		
	US	6,314,269	11-6-2001	Hart, et al.		
	US	6,317,412	11-13-2001	Natali, et al.		
	US	6,317,420	11-13-2001	Schiff		
	US	6,324,381	11-27-2001	Anselmo, et al.		
	US	6,324,398	11-27-2001	Lanzerotti, et al.		
	US	6,336,030	1-1-2002	Houston, et al.		
	US	6,366,256	4-2-2002	Ramanujam, et al.		
	US	6,366,761	4-2-2002	Montpetit		
	US	6,374,080	4-16-2002	Uchida		
	US	6,380,893	4-30-2002	Chang, et al		
	US	6,381,228	4-30-2002	Prieto, Jr., et al.		
	US	6,385,434	5-7-2002	Chuprus, et al.		
	US	6,388,615	5-14-2002	Chang, et al.		
	US	6,392,611	5-21-2002	Smith, et al.		
	US	6,396,819	5-28-2002	Fleeter, et al.		
	US	6,399,708	1-15-2002	Wang		
	US	6,408,180	6-18-2002	McKenna, et al.		
	US	6,414,646	7-2-2002	Luh		
	US	6,424,831	7-23-2002	Schiff		
	US	6,434,384	8-13-2002	Norin, et al.		
Examiner				Date Considered		



Substitute for Form 1449/PTO	APPLICANT INFORMATION	
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U.S PATENT DOCUMENTS

Examiner Reviewed	Country	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Sub Class
	US	6,438,379	8-20-2002	Gitlin, et al.		
	US	6,452,962	9-17-2002	Linsky, et al.		
	US	6,456,846	9-24-2002	Norin, et al.		
	US	6,463,282	10-8-2002	Norin, et al.		
	US	6,463,294	10-8-2002	Holma, et al.		
	US	6,480,788	11-12-2002	Kilfeather, et al.		
	US	6,501,941	12-31-2002	Chang, et al.		
	US	6,507,314	1-14-2003	Chang, et al.		
	US	6,507,739	1-14-2003	Gross, et al.		
	US	6,513,758	2-4-2003	Lloyd, David W.		
	US	6,513,758	2-4-2003	Lloyd, David W.		
	US	6,570,858	5-27-2003	Emmons, Jr., et al.		
	US	US-2001-0000167-A1	4-5-2001	Chang, et al.		
	US	US-2001-0045903-A1	11-29-2001	Chang, et al.		
	US	US-2001-0048389-A1	12-6-2001	Nakagawa		
	US	US-2002-0006795-A1	1-17-2002	Norin		
	US	US-2002-0041575-A1	4-11-2002	Karabinis, et al.		
	US	US-2002-0050946-A1	5-2-2002	Chang, et al.		
	US	US-2002-0072361-A1	6-13-2002	Knoblach, et al.		
	US	US-2002-0072374-A1	6-13-2002	Chang, et al.		
	US	US-2002-0072332-A1	6-13-2002	Chang, et al.		
	US	US-2002-0073437-A1	6-13-2002	Chang, et al.		
	US	US-2002-0072360-A1	6-13-2002	Chang, et al.		
	US	US-2002-0081969-A1	6-27-2002	Chang, et al.		
	US	US-2002-0080732-A1	6-27-2002	Feria, et al.		
	US	US-2002-0106041-A1	8-8-2002	Chang, et al.		
	US	US-2002-0118654-A1	8-29-2002	Chang, et al.		
	US	US-2002-0128045-A1	9-12-2002	Chang, et al.		
	US	US-2002-0128044-A1	9-12-2002	Chang, et al.		
	US	US-2002-0126042-A1	9-12-2002	Chang, et al.		
	US	US-2002-0146058-A1	10-10-2002	Feria, et al.		
	US	US-2002-0150067-A1	10-17-2002	Feria, et al.		
	US	US-2002-0168991-A1	11-14-2002	Kochanski, et al.		
	US	US-2003-0076258-A1	4-24-2003	Chang, et al.		
	US	09/539,964	3-31-2000	Rosen, et al.		
	US	09/566,759	5-5-2000	Novak, et al.		
Examiner				Date Considered		



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Sheet: 5 of 7	Attorney Docket Number	PD-200050

U.S. PATENT DOCUMENTS

Examiner Reviewed	Country	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Sub Class
	US	09/611,753	7-7-2000	Chang, et al.	RECEIVED	
	US	09/721,854	11-22-2000	Rosen, et al.		

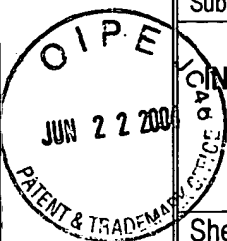
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FOREIGN PATENT DOCUMENTS

Technology Center 2600

Examiner Reviewed	DOCUMENT NUMBER	DATE	COUNTRY	NAME
✓	EP 0 335 558 A3	4-10-1989	EPO	McCaughan, et al
✓	EP 0 549 220 A2	6-30-1993	EPO	
✓	EP 0 682 416 A2	11-15-1995	EPO	
✓	EP 0 749 252 A2	12-18-1996	EPO	
✓	EP 0 860 708 A2	8-26-1998	EPO	
✓	EP 0 860 709 A2	8-26-1998	EPO	
✓	EP 0 860 952 A2	8-26-1998	EPO	
✓	EP 0 887 951 A2	12-30-1998	EPO	
✓	EP 1 010 988 A2	6-21-2000	EPO	
✓	EP 1 139 583 A2	10-4-2001	EPO	
✓	EP 1 148 662 A2	10-24-2001	EPO	
✓	EP 1 152 552 A2	11-7-2001	EPO	
✓	EP 1 158 698 A2	11-28-2001	EPO	
✓	EP 1 161 001 A2	12-5-2001	EPO	
✓	GB 2 271 902 A	10-20-1993	Great Britain	Caterpillar
✓	GB 2 306 827 A	5-7-1997	Great Britain	Intl. Mobile Satellite Org.
✓	GB 2 349 045 A	10-18-2000	Great Britain	Fujitsu Limited
✓	JP 02-028580	1-30-1990	Japan	Mitsubishi Electronic Corp
✓	JP 04-027887	1-30-1992	Japan	Sony Corp
✓	JP 07-146995 A	6-6-1995	Japan	Nippondenso Co. Ltd. (Fumiaki)
✓	JP 08-015405 A	1-19-1996	Japan	NEC Corp. (Toshiaki)
✓	JP 09-026328 A	1-28-1997	Japan	Tokimec Inc.
✓	JP 09-113600 A	5-2-1997	Japan	Aqueous Res. KK (Hiroki)

Examiner	Date Considered
----------	-----------------



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Sheet: 6 of 7		Attorney Docket Number	PD-200050

FOREIGN PATENT DOCUMENTS

Examiner Reviewed	DOCUMENT NUMBER	DATE	COUNTRY	NAME
✓	JP 10-190391 A	4-10-1998	Japan	Sharp Corp. (Koichi et al.)
✓	JP 20-01345747 A	12-14-2001	Japan	
✓	JP 3-291584	12-20-1991	Japan	Toyota
✓	JP 59-097239	6-5-1984	Japan	
✓	WO 90/13186 A1	11-1-1990	WIPO	
✓	WO 96/31016 A1	10-3-1996	EPO	
✓	WO 97/07609 A2	2-27-1997	WIPO	
✓	WO 98/51568 A1	11-19-1998	WIPO	
✓	WO 99/13598 A1	3-18-1999	WIPO	
✓	WO 99/23769 A1	5-14-1999	WIPO	
✓	WO 00/14902 A2	03-2000	WIPO	Diamandis, et al.
✓	WO 01/91310 A2	11-29-2001	WIPO	
✓	WO 01/93458 A2	12-6-2001	WIPO	
✓	WO 01/94969 A2	12-13-2001	WIPO	
✓	WO 01/95220 A2	12-13-2001	WIPO	
✓	WO 01/95522 A1	12-13-2001	WIPO	
✓	WO 01/95523 A2	12-13-2001	WIPO	

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Technology Center 2600

NON-PATENT DOCUMENTS

(Included as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages)

Examiner Reviewed	Agnew et al., "The AMSC Mobile Satellite System", Proceedings of the Mobile Satellite Conference, May 3-5, 1999 NASA, JPL Publication 988-9, pp. 3-9
✓	Akyildiz, Ian F. et al., "HALO (High Altitude Long Operation)" A Broadband Wireless Metropolitan Area Network, "IEEE International Workshop on Mobile Multimedia communications, 11/1999, pp. 271-275
✓	Bethke, K.H., "A Novel Noncooperative Near-Range Radar Network For Traffic Guidance and Control on Airport Surfaces, IEEE Transactions on Control Systems Technology, Vol. 1, no. 3, Sept. 1993
✓	Bricker, P. et al., "Integrated Receiver for NASA Tracking and Data Relay Satellite System" MILCOM 90, A New Era, 1990 IEEE Military Communications conference, Monterey, CA USA, Sept. 30-Oct. 3, 1990, pp. 1-5
✓	Casewell I.E., "The Provision of GSM Cellular Radio Environments Within Passenger Aircraft Operating Over Europe", Racal Res. Ltd., Walton-On-Thames, Mobile Radio and Personal Communications, 1989, Fifth International Conference, 12/11/89-12/14/89, pages 172-176
✓	Chiba, Isamu et al., "Digital Beam Forming (DBF) Antenna System for Mobile Communications", IEEE AES Systems Magazine, Sept. 1997, pp. 31-41

Examiner	Date Considered
----------	-----------------



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Technology Center 2600

NON-PATENT DOCUMENTS

(Included as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages)

Examiner Reviewed	✓	Colella, Nicholas J. et al., "High Speed Internet Access via Stratospheric HALO Aircraft", INET 99 Proceedings, Internet Society, Technology, Wireless, 13 pages, June 8, 1999
	✓	Colella, Nicholas J. et al., "The HALO Network™", IEEE Communications Magazine, June 2000, pp. 142-148
	✓	Colella, Nicholas, "HALO Network – The Birth of Stratospheric communications Services & The Decline of Satellite Networks" HTTP://www.angelhalo.com/techpaper6, Copyright 1997-1999.
	✓	Divsalar et al., "Trellis Coded MPSK Modulation Techniques for MSAT-X", Proceedings of the Mobile Satellite Conference, May 3-5, 1988, NSA, JPL Publication 988-9, pp. 283-290
	✓	Djuknic, Goran et al., "Establishing Wireless Communications Services via High-Altitude Aeronautical Platforms: A Concept Whose Time Has Come?" IEEE Communications Magazine, 9/1997, pp. 128-135
	✓	Doc 9524 FANS/4-WP/76, International Civil Aviation Organization, Special Committee on Future Air Navigation Systems, Fourth Meeting, Montreal, 2-20, May 1988, Report, pp. 3.2B-2 & 3.2B-3
	✓	Dunham, J.B. et al., "Onboard Orbit Estimation with Tracking and Data Relay Satellite System Data", Journal of Guidance, Control and Dynamics, July-August 1983, USA, col. 6 NR.4, pp. 292-301.
	✓	H.D. Griffiths et al., "Bistatic Radar Using Satellite-Borne Illuminators of Opportunity", IEEE, Radar 92, International Conference, Brighton, UK, 1992, pp. 276-279
	✓	Martin, James N. et al., "HALO Network – Broadband Wireless Services from High Altitude Long Operation (HALO) Aircraft", HTTP://www.angelhalo.com/techpaper1, Copyright 1997-1998
	✓	Martin, James N. et al., "HALO Network – The cone of commerce", HTTP://www.angelhalo.com/techpaper2, Copyright 1997-1998
	✓	Miura, Ryu et al., "A DBF Self-Beam Steering Array Antenna for Mobile Satellite Applications using Beam-Space Maximal-Ratio Combination", IEEE Trans. On Vehicular Technology, Vol. 48, no. 3, May 1999, pp. 665-675
	✓	Sakakibara, Kunio et al., "A Two-Beam Slotted Leaky Waveguide Array for Mobile Reception of Dual-Polarization DBS", IEEE Transactions on Vehicular Technology, vol. 48, no. 1, Jan. 1999, pp. 1-7
	✓	Sato, Kazuo et al., "Development and Field Experiments of Phased Array Antenna For Land Vehicle Satellite Communications", IEEE Antennas and Propagation Society International Symposium, 1992, July 1992, pp. 1073-1076
	✓	Suzuki, R. et al., "Mobile TDM/TDMA System with Active Array Antenna", Global Telecommunications Conference, 1991; Globecom 1991, Vol. 3, Dec. 2-5, 1991, pp. 1569-1573
	✓	Teles, J., et al., "Overview of TDRSS", XP-002111610, Space Res., Vol. 16, No. 12, pages (12)67 0 (12)76, 1995 COSPAR, Great Britain

Examiner	Date Considered
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